

Applicant : Leslie L. Deck  
Serial No. : 09/919,511  
Filed : July 31, 2001  
Page : 5

Attorney's Docket No.: 09712-116001 / Z-254 (Fourier  
Transform PSI)

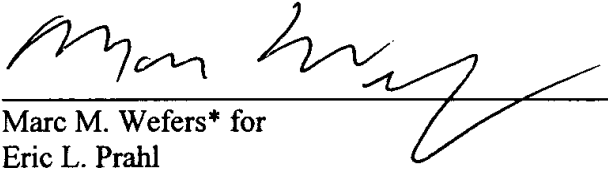
REMARKS

Attached is a marked-up version of the changes being made by the current amendment.

Applicant asks that all claims be examined. Enclosed is a \$312 check for excess claim fees. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 11/2/01

  
\_\_\_\_\_  
Marc M. Wefers\* for  
Eric L. Prah  
Reg. No. 32,590

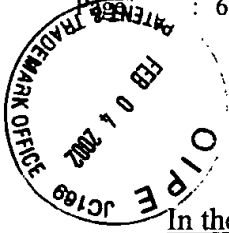
Fish & Richardson P.C.  
225 Franklin Street  
Boston, Massachusetts 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

**\*See attached document certifying that Marc M. Wefers has limited recognition to practice before the U.S. Patent and Trademark Office under 37 C.F.R. § 10.9(b).**

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**Version with markings to show changes made**

**In the specification:**

Replace Eq. 18 on page 19 with the following equation:

$$-- DFT(f_c) = \sum_{j=0}^{N-1} I_j W_j \exp(i\Delta\phi_{Tj}) --.$$

Replace Eq. 20 on page 19 with the following equation:

$$-- \Delta\phi_{Tj} = \Delta\phi_{Mj} \frac{D_T}{D_M} --$$

**In the claims:**

Claim 33 has been amended as follows:

33. (Amended) An interferometry method for characterizing a test object, the method comprising:

forming an optical interference image by combining different portions of an optical wave front reflected from multiple surfaces of the test object and at least one reference surface, the multiple surfaces of the test object and the at least one reference surface defining a set of cavity surfaces;

recording an interference signal at different locations of the optical interference image in response to tuning the frequency of the optical wave front over a range of frequencies, wherein the interference signal includes a contribution from each pair of different surfaces in the set of cavity surfaces;

transforming the interference signal into the frequency domain for at least one of the locations to produce a transformed signal having a series of frequency peaks corresponding to the pairs of different surfaces in the set of cavity surfaces;

identifying a frequency corresponding to each of one or more selected pairs of surfaces from the series of frequency peaks; and

determining an absolute optical thickness for each of the selected pairs of surfaces based on the corresponding identified frequency and the frequency tuning rate.



BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATE PATENT AND TRADEMARK OFFICE

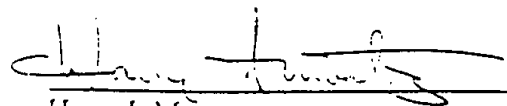
6/8 to.  
G. Stutz  
4-12-02

LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)

Marc M. Wefers is hereby given limited recognition under 37 CFR § 10.9(b) as an employee of Fish & Richardson P.C., to prepare and prosecute patent applications wherein the patent applicant is the client of Fish & Richardson P.C. and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson P.C. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Marc M. Wefers ceases to lawfully reside in the United States, (ii) Marc M. Wefers' employment with Fish & Richardson P.C. ceases or is terminated, or (iii) Marc M. Wefers ceases to remain or reside in the United States on an H-1B visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Expires: December 22, 2001

  
Harry I. Moatz  
Director of Enrollment and Discipline

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